

## interference search

**EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	33261	((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) and (layout\$1 or format\$4) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:44
L2	7610	((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:45
L3	7610	(((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4)) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:45
L4	536	(((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4)) with (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:45
L5	159	4 and @ad<="20020730"	US-PGPUB	OR	OFF	2007/01/09 11:46
L6	9	5 and ((type or format\$4) near (character\$1))	US-PGPUB	OR	OFF	2007/01/09 11:47

J3 1/9/07

**EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	33261	((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) and (layout\$1 or format\$4) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:44
L2	7610	((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:45
L3	7610	(((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4)) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:45
L4	536	(((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4)) with (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:49
L5	159	4 and @ad<="20020730"	US-PGPUB	OR	OFF	2007/01/09 11:49
L6	9	5 and ((type or format\$4) near (character\$1))	US-PGPUB	OR	OFF	2007/01/09 11:49
L7	821	(715/517,507,508,523,524).CCLS.	US-PGPUB	OR	OFF	2007/01/09 11:49
L8	240	7 and @ad<="20020730"	US-PGPUB	OR	OFF	2007/01/09 11:49
L9	3	8 and (((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4)) with (form\$1 near3 process\$3))	US-PGPUB	OR	OFF	2007/01/09 11:49

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	33261	((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) and (layout\$1 or format\$4) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:44
L2	7610	((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:45
L3	7610	(((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4)) and (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:45
L4	536	(((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4)) with (form\$1 near3 process\$3)	US-PGPUB	OR	OFF	2007/01/09 11:49
L5	159	4 and @ad<="20020730"	US-PGPUB	OR	OFF	2007/01/09 11:49
L6	9	5 and ((type or format\$4) near (character\$1))	US-PGPUB	OR	OFF	2007/01/09 11:49
L7	821	(715/517,507,508,523,524).CCLS.	US-PGPUB	OR	OFF	2007/01/09 11:51
L8	240	7 and @ad<="20020730"	US-PGPUB	OR	OFF	2007/01/09 11:52
L9	3	8 and (((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or format\$4)) with (form\$1 near3 process\$3))	US-PGPUB	OR	OFF	2007/01/09 11:52
L10	3472	(715/517,507,508,523,524,501.1, 505,506).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 11:51
L11	7638	(709/229,238,245).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 11:52

## EAST Search History

L12	6601	(707/10).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 11:52
L13	17086	10 11 12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 11:52
L14	2573	13 and @ad<="20020730"	US-PGPUB	OR	OFF	2007/01/09 11:52
L15	11	14 and (((input or data or (fill\$3 adj (in\$1 or out\$1))) with (form\$1 or field\$1 or input\$1 or entr\$3)) with (layout\$1 or formats\$4)) with (form\$1 near3 process\$3))	US-PGPUB	OR	OFF	2007/01/09 11:52
S1	100	("5694594" "5699493" "5734886" "5978594" "6276211" "6856417" "4783699" "5323987" "5384778" "5442622" "5519831" "5661676" "5666068" "5675272" "5687412" "5694429" "5727202" "5740469" "6185574" "6453387" "5303393" "5764691" "5894494" "5999562" "5274508" "4455483" "5920592" "5966512" "5177796" "5280584" "5481531" "5650799" "5684774" "6202073" "4415792" "4627026" "4924426" "4972474" "5237529" "5377102" "5450370" "5467436" "5477492" "5583975" "5592413" "5657398" "5680479" "5680478" "5742509" "5797027").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/10 14:37
S2	11	(data near5 typ\$3) near ((web or html or xml or xhtml) near form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 15:43
S3	1	typed near form\$1 near field\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 15:43

## EAST Search History

S4	0	data-typed near form\$1 near field\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 15:44
S5	0	data-typed near5 (form\$1 near field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 15:44
S6	0	data-typed with (form\$1 near field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 15:44
S7	0	data-typed same (form\$1 near field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/29 15:44
S8	752	(form\$1 near field\$1) with (file\$1 or table\$1 or database\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:21
S9	120	((form\$1 near field\$1) with (file\$1 or table\$1 or database\$1)) same format\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:25
S10	15	S9 and overlay\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:16
S11	165	(form\$1 near field\$1 near (attribute\$1 or element\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:23
S12	23306	("715").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:22
S13	21	S11 and S12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:22

## EAST Search History

S14	24	((form\$1 near field\$1 near (attribute\$1 or element\$1)) same (format\$4 or layout\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:24
S15	1	((form\$1 near field\$1) with (file\$1 or table\$1 or database\$1)) same (input\$4 near format\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:26
S16	38	(form\$1 near field\$1) same (input\$4 near format\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:55
S17	5	(form\$1 near field\$1) same (validat\$3 near format\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:57
S18	108	automatic adj formatting	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:57
S19	14	(automatic adj formatting) same (form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:57
S20	0	"automatic formatting".tt.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:58
S21	3	(US-20050149854-\$ or US-20020013788-\$ or US-20040039993-\$).did.	US-PGPUB	OR	OFF	2005/11/30 08:58
S22	1	S21 and hsformat	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:59
S23	2	hsformat	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 08:59

## EAST Search History

S24	432197	"format="	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 09:00
S25	310126	"format=" and (form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 09:00
S26	4161	"format=" and (form\$1 near field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 09:00
S27	155	"format=" and (form\$1 near field\$1 near input\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 09:00
S28	105	S27 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:10
S29	80	xforms	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:10
S30	30	xforms and (constraint\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:11
S31	0	xforms and (constraint\$3 near value\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:11
S32	28	S30 not (x adj window\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:12
S33	16	S32 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:43

## EAST Search History

S34	50	(pre adj populat\$3) near (form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:44
S35	26	S34 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:44
S36	56	((pre adj populat\$3) or (auto near complet\$4)) near (form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:44
S37	106	((pre adj populat\$3) or ((auto or automatic\$4) near complet\$4)) near (form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:49
S38	65	S37 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:49
S39	220	((pre adj (populat\$3 or fill\$3)) or ((auto or automatic\$4) near complet\$4)) near (form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 10:49
S40	137	S39 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:05
S41	253	(715/505,6,7,8).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:03
S42	253	(715/505).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:03
S43	676	(715/505-508).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:03

## EAST Search History

S44	143	(715/506).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:03
S45	330	(715/507).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:04
S46	113	(715/508).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:04
S47	2352	(715/513).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:04
S48	43	S43 and S47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:04
S49	30	S48 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:06
S50	413	S45 or S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:05
S51	337	S50 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:06
S52	167	S51 and fill\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:06
S53	183	S51 and (fill\$3 or populat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:06

## EAST Search History

S54	0	S52 and (detect\$3 near URL\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:07
S55	0	S52 and (detect\$3 near3 URL\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:07
S56	0	S52 and (detect\$3 near5 URL\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:07
S57	3	S52 and (detect\$3 same URL\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 11:07
S58	701	form\$1 near field\$1 near (data\$1 or input\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:39
S59	472	S58 and (check\$3 or validat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:36
S60	263	S59 and predetermin\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:36
S61	48	S59 and (file adj typ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:37
S62	484	S58 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:40
S63	332	S58 and @ad<="20020730"	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:50

## EAST Search History

S64	331	(715/507).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:40
S65	27	S63 and S64	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:43
S66	15	S65 and (formatt\$3 or layout\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:44
S67	0	S65 and (field\$3 near formatt\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:44
S68	1	S65 and (input\$4 near formatt\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:45
S69	1	S65 and (input\$4 near5 formatt\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:45
S70	2	S65 and (input\$4 with.formatt\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:46
S71	31	(form\$1 near field\$1) same (input\$4 with formatt\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:50
S72	7	S71 and estrada.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:47
S73	24	S71 not S72	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:47

## EAST Search History

S74	7	S71 and S72	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:47
S75	17	S71 and @ad<="20020730"	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 14:50
S76	15	(form\$1 near field\$1) same (input\$4 with formatt\$3)	USPAT	OR	OFF	2005/12/05 15:31
S77	2	("6192380").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 15:31
S78	29	("5640577"   "5794259"   "5802518"   "5931907"   "5963952"   "5974430"   "6029245").PN. OR ("6192380").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:34
S79	0	S78 and forma4\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:32
S80	4	S78 and layout\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:32
S81	5	S78 and validat\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:36
S82	5	S78 and validat\$3 and attribute\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:38
S83	5	S78 and validat\$3 and attribute\$1 and rule\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:38
S84	0	ll26 and (data adj validation adj rules)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:39
S85	2	S83 and (data adj validation adj rules)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:58
S86	7	hitchcock.in. and wolfston.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:06
S87	1	S64 and "application table"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 15:59

## EAST Search History

S88	3	S64 and (application\$1 near table\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:00
S89	6	S86 and (application\$1 near table\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:04
S90	0	S86 and (table\$1 near url\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:04
S91	0	S86 and (table\$1 near reference\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:05
S92	0	S86 and (table\$1 near link\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:05
S93	0	S86 and (table\$1 same hyperlink\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:05
S94	0	S86 and (table\$1 same photo\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:05
S95	0	S86 and (table\$1 same picture\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:05
S96	0	S86 and (table\$1 same personal)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:05
S97	0	S86 and (table\$1 near file\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:06
S98	6	S86 and (table\$1 same file\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:07
S99	6	S86 and (table\$1 same address\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:09
S100	0	S86 and (table\$1 same (link\$3 or hyperlink\$3 or (hyper adj link\$3)))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:09
S101	2	S86 and (field\$1 same (link\$3 or hyperlink\$3 or (hyper adj link\$3)))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:10
S102	0	S86 and (input\$1 same (link\$3 or hyperlink\$3 or (hyper adj link\$3)))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/05 16:14

## EAST Search History

S10 3	2	("6167523").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 16:15
S10 4	2	("5991469").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 16:15
S10 5	91	(format\$4 near5 (string\$1 or character\$1 or value\$1)) with (form\$1 near5 field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:05
S10 6	94	(format\$4 near5 (string\$1 or character\$1 or value\$1 or attribute\$1)) with (form\$1 near5 field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:06
S10 7	72	S106 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:13
S10 8	1	S107 and skip\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:09
S10 9	0	S107 and supress\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:09
S11 0	0	S107 and supres\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:09
S11 1	8	S107 and (skipp\$3 or ignor\$3 or supress\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:10
S11 2	257	(715/505).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:12

## EAST Search History

S11 3	143	(715/506).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:12
S11 4	331	(715/507).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:13
S11 5	113	(715/508).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:13
S11 6	681	S112 S113 S114 S115	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:13
S11 7	533	S116 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:33
S11 8	137	S117 and (input\$4 with format\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:14
S11 9	32	S117 and (input\$4 with field\$1 with format\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:15
S12 0	16	S119 and (skip\$4 or omit\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:26
S12 1	10	S120 and condition\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:32
S12 2	1826	xform\$1 or (xml near form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:32

## EAST Search History

S12 3	903	S122 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:39
S12 4	750	S123 and (formatting or format\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:33
S12 5	133	S123 and (field\$1 with (formatting or format\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:38
S12 6	16	(formatted near input\$1) same (form\$1 with field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:41
S12 7	15	S126 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:43
S12 8	33	(formatted near5 input\$1) same (form\$1 with field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:41
S12 9	26	S128 not estrada.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:42
S13 0	26	S129 not shaug.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:42
S13 1	26	S129 not shaughenssy.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:43
S13 2	23	S129 not shaughnessy.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:43

## EAST Search History

S13 3	15	S132 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/07 15:43
S13 4	93350	(field\$1 or record\$1 or cell\$1) same (format\$4 or layout\$1) same (form\$1 or spreadsheet\$3 or (spread adj sheet\$3) or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:36
S13 5	19570	(field\$1 or record\$1 or cell\$1) with (format\$4 or layout\$1) with (form\$1 or spreadsheet\$3 or (spread adj sheet\$3) or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:36
S13 6	309	(field\$1 or record\$1 or cell\$1) near (format\$4 or layout\$1) near (form\$1 or spreadsheet\$3 or (spread adj sheet\$3) or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:38
S13 7	309	S136 and 2ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:38
S13 8	235	S136 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:43
S13 9	71	S138 and ((input\$4 or layout\$3) with (format\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:45
S14 0	23	S139 and (process\$3 with file\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:49
S14 1	5	S138 and (formatted with input\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:50
S14 2	23	(formatted with input\$1 with attribute\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:52

## EAST Search History

S14 3	75	(formatted with (input\$1 or content\$1) with attribute\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:55
S14 4	9200	(formatted with (input\$1 or content\$1 or value\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:56
S14 5	178212	(format\$3 with (input\$1 or content\$1 or value\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:56
S14 6	62498	(format\$3 near3 (input\$1 or content\$1 or value\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:56
S14 7	22830	(format\$3 near (input\$1 or content\$1 or value\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 11:56
S14 8	296	(format\$3 near (input\$1 or content\$1 or value\$1)) with (assign\$3 or apply\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:04
S14 9	14	S148 and skipp\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:02
S15 0	188	(715/522).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:04
S15 1	364	(715/523).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:04
S15 2	65	(715/524).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:04

## EAST Search History

S15 3	562	S150 S151 S152	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:04
S15 4	496	S153 and (format\$1 or format\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:05
S15 5	274	S153 and ((input\$1 or field\$1) same (format\$1 or format\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:08
S15 6	145	S155 and (int or real or chr or char or string)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:09
S15 7	116	S155 and ((int and real) or chr or char or string)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/08 12:09
S15 8	2	("6199079").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:45
S15 9	1	S158 and field\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:48
S16 0	4292	(field\$1 near format\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:48
S16 1	13	form\$1 near (field\$1 near format\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:50
S16 2	74	form\$1.near5 (field\$1 near format\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:57

## EAST Search History

S16 3	337	form\$1 near5 (field\$1 near3 format\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:58
S16 4	263	S163 not S162	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:58
S16 5	23624	("715").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:58
S16 6	34	S164 and S165	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:58
S16 7	34	S166 and (form\$1 near5 (field\$1 near3 format\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:58
S16 8	27	S167 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:05
S16 9	204	715/507	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:05
S17 0	140	S169 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:23
S17 1	99	S170 and (form\$1 and field\$1 and format\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:05
S17 2	50	S170 and (form\$1 and (field\$1 same format\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:07

## EAST Search History

S17 3	47	S170 and (form\$1 and (field\$1 same format\$4) and automatic\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:07
S17 4	28	(US-20010047426-\$ or US-20010047428-\$ or US-20020013788-\$ or US-20030023625-\$ or US-20030046316-\$ or US-20030078949-\$ or US-20030159071-\$ or US-20040034833-\$ or US-20040039993-\$ or US-20040148568-\$ or US-20040205530-\$ or US-20040205533-\$ or US-20050149854-\$ or US-20050198563-\$).did. or (US-5231579-\$ or US-5404294-\$ or US-5563998-\$ or US-5745712-\$ or US-5991469-\$ or US-6088700-\$ or US-6167523-\$ or US-6460042-\$ or US-6651217-\$ or US-6854085-\$ or US-6944669-\$ or US-6662340-\$ or US-6185583-\$ or US-5025396-\$). did.	US-PGPUB; USPAT	OR	OFF	2005/12/28 11:23
S17 5	11	S174 and validat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:24
S17 6	22717581	17and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:23
S17 7	22717457	I17and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:23
S17 8	24	S174 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:24
S17 9	9	S178 and validat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:56

## EAST Search History

S18 0	2	("6637447").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:58
S18 1	2	("5991782").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:59
S18 2	2	("6826597").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:59
S18 3	4	US-6199079-\$.DID. OR US-5794259-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/03 08:48
S18 4	30	(US-20010047426-\$ or US-20010047428-\$ or US-20020013788-\$ or US-20030023625-\$ or US-20030046316-\$ or US-20030078949-\$ or US-20030159071-\$ or US-20040034833-\$ or US-20040039993-\$ or US-20040148568-\$ or US-20040205530-\$ or US-20040205533-\$ or US-20050149854-\$ or US-20050198563-\$).did. or (US-5025396-\$ or US-5231579-\$ or US-5404294-\$ or US-5563998-\$ or US-5745712-\$ or US-5991469-\$ or US-5991782-\$ or US-6088700-\$ or US-6167523-\$ or US-6185583-\$ or US-6460042-\$ or US-6651217-\$ or US-6662340-\$ or US-6826597-\$ or US-6854085-\$ or US-6944669-\$). did.	US-PGPUB; USPAT	OR	OFF	2006/01/04 14:25
S18 5	5	S184 and skip\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:28

## EAST Search History

S18 6	53188	(file\$1 or table\$1 or list\$1) with (data\$1 near5 (format\$4 or type\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:30
S18 7	34479	(file\$1 or table\$1 or list\$1) near3 (data\$1 near5 (format\$4 or type\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:30
S18 8	21466	(file\$1 or table\$1 or list\$1) near3 (data\$1 near5 (format\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:30
S18 9	2855	(file\$1 or table\$1 or list\$1) with (contain\$3 or populat\$3) with (data\$1 near5 (format\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:31
S19 0	121	(file\$1 or table\$1 or list\$1) with (contain\$3 or populat\$3) with (data\$1 near5 (format\$4) near5 field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:31
S19 1	193	(file\$1 or table\$1 or list\$1) with (contain\$3 or populat\$3) with (data\$1 near5 (format\$4) near5 (value\$1 or field\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:34
S19 2	128	S191 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:44
S19 3	58	(file\$1 or table\$1 or list\$1) with (contain\$3 or populat\$3) with (record\$1 near5 (format\$4) near5 (value\$1 or field\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:35
S19 4	68	(file\$1 or table\$1 or list\$1) with record\$1 with ((format\$4 and value\$1) near5 field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:36
S19 5	18	(file\$1 or table\$1 or list\$1) with (data\$1 near5 record\$1) with ((format\$4 and value\$1) near5 field\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:40

## EAST Search History

S19 6	9	(data\$1 near5 record\$1) with (format\$4 near5 statement\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:42
S19 7	81	(record\$1) with (format\$4 near5 statement\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:42
S19 8	1505	(record\$1) with (format\$4 near5 (statement\$1 or field\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:42
S19 9	59	S198 and ((html or xml or sgml or xhtml) near form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:43
S20 0	74	S198 and ((html or xml or sgml or xhtml or web) near form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:43
S20 1	54	S200 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 15:54
S20 2	2000	picture adj character\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:48
S20 3	31	(form\$1 near field\$1 near attribute\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:50
S20 4	554	(form\$1 near field\$1) with (validat\$3 or check\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 14:51
S20 5	14	(form\$1 near field\$1) with (validat\$3 or check\$3) with (format\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 15:54

## EAST Search History

S20 6	1793	(form\$1 near field\$1) with (data\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 15:54
S20 7	1288	S206 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 15:54
S20 8	688	(715/505,506,507,508).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 15:54
S20 9	112	S207 and S208	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:20
S21 0	1606	(constrain\$3 near input\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:20
S21 1	20	(constrain\$3 near (form\$1 or field\$1) near input\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:28
S21 2	2	S211 and populat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:28
S21 3	98	(constrain\$3 near3 (form\$1 or field\$1) near3 input\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:28
S21 4	12	S213 and populat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:29
S21 5	2658	smart near5 form\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:30

## EAST Search History

S21 6	17	S215 and S208	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:30
S21 7	2672	(smart\$2 or intellegent\$2) near5 form\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:31
S21 8	4103	(smart\$2 or intelligent\$2) near5 form\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:32
S21 9	33	S218 and S208	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:34
S22 0	4	((smart\$2 or intelligent\$2) near5 form\$1) with constraint\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:32
S22 1	29	S219 and @ad<="20030331"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/04 16:34
S22 2	3	(constraint\$3 near5 input\$4) same ((fillin\$1 or fill-in\$1 or (fill adj in\$1) or web or html) with form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:27
S22 3	2	S222 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:27
S22 4	19	(constraint\$3 near5 field\$1) same ((fillin\$1 or fill-in\$1 or (fill adj in\$1) or web or html) with form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:27
S22 5	7	S224 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:28

## EAST Search History

S22 6	284	(constrain\$3 near5 input\$4) same ((fillin\$1 or fill-in\$1 or (fill adj in\$1) or web or html or input) with form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:28
S22 7	206	S226 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:50
S22 8	10	S227 and ((skip\$4 or omit\$4) near5 (input\$1 or data\$1 or value\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:49
S22 9	29	input\$4 near (form\$1 with field\$1 with (input\$1 or data\$1 or value\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:49
S23 0	15	S229 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:56
S23 1	5135	import\$3 with data\$1 with (table\$1 or database\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:55
S23 2	453	import\$3 with data\$1 with (spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:55
S23 3	282	S232 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:56
S23 4	9447	(715/5??).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:56
S23 5	31	S233 and S234	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:56

## EAST Search History

S23 6	2	("5,563,998").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/17 11:09
S23 7	120493	form\$1 same (fill-in\$1 or fillin\$1 or (fill adj in\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 11:24
S23 8	1435	((web or html) with form\$1) with (fill-in\$1 or fillin\$1 or (fill adj in\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 11:31
S23 9	24	S238 and (regular adj expression\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 11:32
S24 0	11	S239 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 14:27
S24 1	11	S240 and (database\$1 or table\$1 or file\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 14:11
S24 2	2	("6,192,380").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 11:44
S24 3	4	US-6199079-.DID. OR US-5794259-.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 11:46
S24 4	2	("6460042").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 14:27
S24 5	2	("6460042").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 14:44

## EAST Search History

S24 6	2	S245 and (read\$3 or access\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 14:46
S24 7	1	S245 and (read\$3 or access\$3) and populat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 14:47
S24 8	1	S245 and (read\$3 or access\$3) and populat\$3 and (database\$1 with subsequent\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 14:47
S24 9	42	(US-20010047426-\$ or US-20010047428-\$ or US-20020013788-\$ or US-20020184255-\$ or US-20030023625-\$ or US-20030046316-\$ or US-20030078949-\$ or US-20030159071-\$ or US-20040034833-\$ or US-20040039993-\$ or US-20040148568-\$ or US-20040205530-\$ or US-20040205533-\$ or US-20050149854-\$ or US-20050198563-\$).did. or (US-5008810-\$ or US-5025396-\$ or US-5231579-\$ or US-5404294-\$ or US-5563998-\$ or US-5619635-\$ or US-5704029-\$ or US-5745712-\$ or US-5794259-\$ or US-5991469-\$ or US-5991782-\$ or US-6088700-\$ or US-6167523-\$ or US-6185583-\$ or US-6192380-\$ or US-6199079-\$ or US-6341359-\$ or US-6460042-\$ or US-6525749-\$ or US-6589290-\$ or US-6651217-\$ or US-6658622-\$ or US-6662340-\$ or US-6826597-\$ or US-6854085-\$ or US-6944669-\$). did. or (US-6964010-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/01/18 16:08
S25 0	13	S249 and variable	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 16:10

## EAST Search History

S25 1	9	S249 and variable with (data\$1 or field\$1 or input\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 16:11
S25 2	0	S249 and variable with (length\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 16:11
S25 3	0	S249 and (variable with (length\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 16:11
S25 4	3321	(715/517,513,507).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 07:42
S25 5	5396	(707/10).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 07:42
S25 6	6325	(709/229,238,245).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 07:42
S25 7	14416	S254 S255 S256	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 07:42
S25 8	11083	S257 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 07:43
S25 9	2113	S258 and ((html or web or fillin\$1 or fill-in\$1 or (fill adj in\$1)) with form\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 07:43
S26 0	3131	(input near mask\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:52

## EAST Search History

S26 1	176	(form\$1 with (input near mask\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:53
S26 2	222	(field\$1 with (input near mask\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:53
S26 3	74	S261 and S262	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:53
S26 4	10	S263 and html	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:54
S26 5	10	S263 and web	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:55
S26 6	44042	(input\$1 or field\$1 or form\$1) near mask\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:56
S26 7	8362	(input\$1 or field\$1) near mask\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:56
S26 8	5194	(field\$1) near mask\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 14:56
S26 9	3817	(input\$4) near mask\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:14
S27 0	4046	(import\$3 with (data\$1 or datum or content\$1) with database\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:14

## EAST Search History

S27 1	372	(import\$3 with (data\$1 or datum or content\$1) with database\$1) with (format\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:15
S27 2	375	(import\$3 with (data\$1 or datum or content\$1) with database\$1) with (format\$4 or mask\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:15
S27 3	207	S272 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:18
S27 4	1	S273 and ((character adj string\$1) near type\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:21
S27 5	51	("4827411"   "5257369"   "5421001"   "5421006"   "5490088"   "5524253"   "5560005"   "5608898"   "5615372"   "5621721"   "5623662"   "5721909"   "5752242"   "5826270"   "5832522"   "5873103"   "5937415"   "5958016"   "5966717"   "5970490"   "5974417"   "6044372"   "6047280"   "6070192"   "6094684"   "6094688"   "6134559"   "6148329"   "6154748"   "6167405"   "6199068"   "6202099"   "6212550"   "6243749"   "6256676"   "6263369"   "6298383"   "6304915"   "6333931"   "6427170"   "6430619"   "6442588"   "6466977"   "6498791"   "6510429"   "6510465"   "6549956").PN. OR ("6718332").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/08 15:21
S27 6	50	S275 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:26
S27 7	1	S274 and ((character adj string\$1) near type\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:21

## EAST Search History

S27 8	6	S276 and mask\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:25
S27 9	0	(database near record\$1 near mask\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:25
S28 0	90	(database with record\$1 with mask\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:25
S28 1	91	(database\$1 with record\$1 with mask\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:26
S28 2	54	S281 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:01
S28 3	1	(database\$1 with record\$1 with (input\$4 near3 mask\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:26
S28 4	1553	(form with field\$1 with ((populat\$3 or import\$3 or read\$3) with (data\$1 or content\$1 or string\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:59
S28 5	2	(form with field\$1 with ((populat\$3 or import\$3 or read\$3) with (data\$1 or content\$1 or string\$1))) with constrain\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:00
S28 6	67211	(data with (mask\$3 or constrain\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:01
S28 7	11792	(content\$1 with (mask\$3 or constrain\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:01

## EAST Search History

S28 8	3121	(string\$1 with (mask\$3 or constrain\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:01
S28 9	436	(string\$1 near (mask\$3 or constrain\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:01
S29 0	286	S289 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:03
S29 1	7	S290 and (form with (fill\$3 or (fill\$3 adj in) or populat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:02
S29 2	0	S290 and (form with populat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:02
S29 3	485	(form\$1 with populat\$3) same (automatic\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:03
S29 4	231	S293 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:03
S29 5	11	S294 and (constrain\$3 with (data or input or content\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:16
S29 6	4	US-6199079-.DID. OR US-5794259-.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:16
S29 7	80	(client adj side) with (form\$1 or input\$1 or field\$1) with (validat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/10 14:38

## EAST Search History

S29 8	46	S297 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/10 14:38
S29 9	44	(US-20050149854-\$ or US-20030023625-\$ or US-20030046316-\$ or US-20030078949-\$ or US-20010047426-\$ or US-20040205533-\$ or US-20020013788-\$ or US-20050278295-\$ or US-20030159071-\$ or US-20040148568-\$ or US-20010047428-\$ or US-20040039993-\$ or US-20050198563-\$ or US-20040205530-\$ or US-20040034833-\$ or US-20020184255-\$).did. or (US-6088700-\$ or US-5404294-\$ or US-5704029-\$ or US-6525749-\$ or US-5794259-\$ or US-6718332-\$ or US-6651217-\$ or US-6944669-\$ or US-5563998-\$ or US-6167523-\$ or US-6854085-\$ or US-6185583-\$ or US-6662340-\$ or US-6589290-\$ or US-5991469-\$ or US-5619635-\$ or US-6192380-\$ or US-6460042-\$ or US-6964010-\$ or US-5231579-\$ or US-6658622-\$ or US-5008810-\$ or US-5745712-\$ or US-6199079-\$ or US-5025396-\$ or US-6826597-\$). did. or (US-5991782-\$ or US-6341359-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/08/11 09:18
S30 0	0	S299 and "ss_num"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 09:19
S30 1	30	S299 and (field\$1 with name\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 09:19
S30 2	2	S299 and (input with mask\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 09:23

## EAST Search History

S30 3	2	("6981028").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:09
S30 4	121	girgensohn.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:10
S30 5	0	girgensohn.in. and zimmermann.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:10
S30 6	49	girgensohn.in. and form\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:14
S30 7	2	("6,460,042").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:14
S30 8	3966	(715/517,513,507,505).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:45
S30 9	6079	(707/10).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:45
S31 0	7080	(709/245,238,229).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:46
S31 1	16424	S308 S309 S310	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:46
S31 2	12048	S311 and @ad<="20020730"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:46

## EAST Search History

S31 3	6082	S312 and ((form\$1 and (field\$1 or input\$1)) and (html or web or www or (world adj wide)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:47
S31 4	1020	S312 and (((form\$1 and (field\$1 or input\$1)) with (format\$4 or type\$1)) and (html or web or www or (world adj wide)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:48
S31 5	7	S314 and (form\$1 and (field\$1 or input\$1)) with (pre adj (fill\$3 or populat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 12:49
S31 6	1261	(type same specification same (character\$1 or letter\$1))	USPAT	OR	OFF	2007/01/09 09:32
S31 7	139923	(format\$4 same (field\$1 or input\$1))	USPAT	OR	OFF	2007/01/09 09:33
S31 8	73587	(format\$4 with (field\$1 or input\$1))	USPAT	OR	OFF	2007/01/09 09:33
S31 9	11075	(format\$4 near (field\$1 or input\$1))	USPAT	OR	OFF	2007/01/09 09:33
S32 0	7420	((format\$1 ro formatting) near (field\$1 or input\$1))	USPAT	OR	OFF	2007/01/09 09:33
S32 1	7312	((format\$1 or formatting) near (field\$1 or input\$1))	USPAT	OR	OFF	2007/01/09 09:34
S32 2	14434	((format\$1 or formatting) near (field\$1 or input\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:35
S32 3	9842	S322 and @ad<="20020730"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:37
S32 4	284	yyyymmdd	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:37

## EAST Search History

S32 5	156	S324 and @ad<="20020730"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:41
S32 6	56	S325 and (form\$1 near3 (field\$1 or input\$1 or value\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:40
S32 7	56	S325 and (form\$1 near3 (field\$1 or input\$1 or value\$1) or (text\$1 adj2 entr\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:41
S32 8	56	S325 and (((form\$1 near3 (field\$1 or input\$1 or value\$1)) or (text\$1 adj2 entr\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:43
S32 9	186	yymmdd	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:41
S33 0	135	S329 and @ad<="20020730"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:42
S33 1	138	mmddyy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:42

## EAST Search History

S33 2	64	mmddyyyy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:42
S33 3	21	ddmmyyyy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:42
S33 4	52	ddmmyy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:42
S33 5	486	S324 S331 S332 S333 S334	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:42
S33 6	274	S335 and @ad<="20020730"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:52
S33 7	89	S336 and (((form\$1 near3 (field\$1 or input\$1 or value\$1)) or (text\$1 adj2 entr\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:54
S33 8	89	S337 and (format\$1 or formatting or layout\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:44

## EAST Search History

S33 9	0	S338 and canon.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:52
S34 0	7	S338 and overlay\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:49
S34 1	48	S338 and (form\$1 with process\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:52
S34 2	439	picture adj word\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:52
S34 3	284	S342 and @ad<="20020730"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:52
S34 4	4	S343 and canon.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:54
S34 5	280	S343 not S344	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:54

*JB* 119107

## EAST Search History

S34 6	41	S345 and (((form\$1 near3 (field\$1 or input\$1 or value\$1)) or (text\$1 adj2 entr\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/09 09:54
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form divide field "format OR string" OR "form C [REDACTED] - [REDACTED] 2002 Search Ad Sct Sct  
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[H Payer](#)

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[A Bushnell](#)

Form utilizing encoded indications for form field processing - group of 2 »

WAL Johnson, BA Faieta, ZE Smith III - US Patent 5,060,980, 1991 - Google Patents  
... carried by forms can conveniently be divided into three ... needed to read and process the remainder of the form. ... description of the location of the field on the ...  
Cited by 70 - Related Articles - Web Search

Apparatus and method for adaptively compressing successive blocks of digital video - group of 2 »

EA Krause, WH Paik - US Patent 5,091,782, 1992 - Google Patents  
... The horizontal lines are divided into even and odd fields, wherein the even lines (lines 2, 4, 6, ...) form the even field and the odd lines ...  
Cited by 101 - Related Articles - Web Search

[book] Field Guide for Collecting and Processing Stream-water Samples for the National Water-Quality ... - group of 2 »

LR Shelton, G Survey - 1994 - ca.water.usgs.gov  
... 45 angles) that meet in the center to form an inverted ... processing chamber or inside a clean field vehicle. ... used as the primary splitter to divide the collected ...  
Cited by 190 - Related Articles - Cached - Web Search - Library Search

Method and apparatus for filling out a form by a machine - group of 3 »

N Zeising - US Patent 4,651,288, 1987 - Google Patents  
... printed out on the form in the addressed text field, ... addressed text field, spacing can be divided into several steps with respect to 60 ...  
Cited by 26 - Related Articles - Web Search

System for reading a form utilizing encoded indications for form field processing - group of 2 »

WAL Johnson, BA Faieta, HD Jellinek, ZE Smith III - US Patent 5,991,469, 1999 - Google Patents  
... carried by forms can conveniently be divided into three ... needed to read and process the remainder of the form. ... description of the location of the field on the ...  
Cited by 5 - Related Articles - Web Search

Image signal encoding apparatus using adaptive frame/field format compression - group of 3 »

JT Lim... - US Patent 5,434,622, 1995 - Google Patents  
... a standard NTSC television system), which are divided into even ... odd lines (line 1, 3, 5, ...) form an odd ... more efficient to compress data in the field format. ...  
Cited by 10 - Related Articles - Web Search

Defect management and split field processing in disk storage systems - group of 2 »

JS Geldman, SH Ho, P Estakhri, JJ Schadegg... - US Patent 5,740,358, 1998 - Google Patents  
... Split field processing allows ... easier to employ as any track or band of tracks can have an optimized track format with varying data field split sizes for ...

Cited by 26 - Related Articles - Web Search

Mirages in shallow water matched field processing - group of 5 »

GL D'Spain, JJ Murray, WS Hodgkiss, NO Booth, PW ... - The Journal of the Acoustical Society of America, 1999 - link.aip.org

... (14a) and (14b) are divided into the ... 27) becomes: which has exactly the same form as Eq ... in various ways to address issues important to matched field processing. ...

Cited by 32 - Related Articles - Web Search - BL Direct

Packet information field data format - group of 3 »

HW Adelmann, JD Tomcik... - US Patent 4,703,477, 1987 - Google Patents

... Douglas W. Olms Assistant Examiner—Wellington Chin Attorney, Agent, or Firm—Thomas Stafford [57] ABSTRACT A packet information field format is disclosed ...

Cited by 20 - Related Articles - Web Search

Facsimile transmission system - group of 3 »

WAL Johnson - US Patent 5,363,214, 1994 - Google Patents

... 31, 1991, which is a division of Ser. ... This permits optimization APPLICATIONS of the efficiency of an optical character reader. ... FORM FIELD PROCESSING" filed on Jul ...

Cited by 12 - Related Articles - Web Search

Simulations of Matched-Field Processing in a Deep-Water Pacific Environment - group of 3 »

M Porter, R Dicus, R Fizell - Oceanic Engineering, IEEE Journal of, 1987 - ieeexplore.ieee.org

... 8]. The approach employed in this paper is matched-field processing [1], [2], [5], [6], [9]. The matched-field processor takes the same form as traditional ...

Cited by 16 - Related Articles - Web Search

Video image field cut processing - group of 2 »

GB Fryer, DA Stepneski - US Patent 4,493,108, 1985 - Google Patents

... The data stream is usually divided into scan 20 ... of the document D in the form of a narrow ... Additionally, the document contains .1 format field area, identified ...

Cited by 11 - Related Articles - Web Search

Electromagnetic matched-field processing: basic concepts and tropospheric simulations - group of 3 »

DF Gingras, P Gerstoft, NL Gerr - Antennas and Propagation, IEEE Transactions on, 1997 - ieeexplore.ieee.org

... data vectors are averaged to form the sample ... interests include matched-field processing,

propagation modeling ... communications, and code-division multiple access ...

Cited by 12 - Related Articles - Web Search - BL Direct

System for controllably eliminating bits from packet information field based on indicator in header ... - group of 2 »

HW Adelmann, JD Tomcik - US Patent 4,920,534, 1990 - Google Patents

... mat and a corresponding packet information field for- mat ... 5 depicts a packet header format useful in de ... 11 depicts in simplified block diagram form 40 details ...

Cited by 39 - Related Articles - Web Search

Data processing system and method for field extraction of scanned images of document forms - group of 3 »

SL Huang - US Patent 5,416,849, 1995 - Google Patents

... BUFFER 40 MASTER FORM FORMAT TOP (FIG. 2A & FIG. ... 26A' V\_ FORMS RECO. ... ENGLISH FIRST

NAME AI RO INTERNATIONAL FIRST NAME EXTRACTED gxj FIELD IMAGE j~~] IMAGES  
\ ...

Cited by 18 - Related Articles - Web Search

Method for locating and reading a two-dimensional barcode

US Patent 6,082,619, 2000 - patentstorm.us

... 1988 Inventor: Dvorzsak 5060980 **Form** utilizing encoded indications for **form field processing** Issued on ... In one embodiment, the candidate region is divided into a ...

Cited by 11 - Related Articles - Cached - Web Search

High pulsed voltage systems for extending the shelf life of pumpable food products - group of 3 »

AH Bushnell, JE Dunn, RW Clark - US Patent 5,048,404, 1991 - Google Patents

... 4,838,154, which is a **division** of Ser. ... DE ION IZED WATER- APPLIED VOLTAGE WAVE **FORM**

r'-n ... 17 is a schematic diagram of a pulsed electric **field** configuration for ...

Cited by 72 - Related Articles - Web Search

Bottom geoacoustic inversion by matched **field processing**-a sensitivity study - group of 4 »

MI Taroudakis, MG Markaki - Inverse Problems, 2000 - iop.org

... we do not have an explicit **form** of their ... variations affect so strongly the acoustic **field** (especially at ... into account, the search procedure **division** does not ...

Cited by 7 - Related Articles - Web Search - BL Direct

Method and apparatus of image processing - group of 3 »

M Kanda - US Patent 5,005,080, 1991 - Google Patents

... the second memory 13 **forms** data in which a picture ... writing in each regions when the picture is **divided** as ... video signal continues for the period of 16 **fields**. ...

Cited by 6 - Related Articles - Web Search

Matched **field** inversion for geoacoustic model parameters using adaptive simulated annealing - group of 4 »

CE Lindsay, NR Chapman - Oceanic Engineering, IEEE Journal of, 1993 - ieeexplore.ieee.org

... of components including i) a specific **form** of the ... model for calculating the replica acoustic **fields**, iii) a ... the inversion depends strongly on the **design** of the ...

Cited by 31 - Related Articles - Web Search - Library Search - BL Direct

Design Concepts for a Sky Noise Limited Low Frequency Array - group of 3 »

JD Bregman - Perspectives on Radio Astronomy: Technologies for Large ..., 1999 - astron.nl

... conventional approach with regular arrays, to **form** a regular U ... When we have to **divide** a collecting area into ... large intersecting rings to limit the **field** of view ...

Cited by 8 - Related Articles - Web Search

Progressive scan television system using luminance low frequencies from previous **field** - group of 2 »

DH Willis... - US Patent 5,175,619, 1992 - Google Patents

... scanned output signal S2 of a **form** (eg, RGB component **form**) suitable for ... selecting the **field** delayed luminance signal Y9 under "split" or **divided** into high ...

Cited by 6 - Related Articles - Web Search

Far **field** array processing with neural networks

B Colnet, JP Haton - Acoustics, Speech, and Signal Processing, 1994. ICASSP-94., ..., 1994 - ieeexplore.ieee.org

... degrees to +90 degrees is **divided** in Na ... can identify directions independently of

the signals **form**. ... range and depth discrimination in match **field processing**". ...  
[Cited by 3 - Related Articles - Web Search](#)

**A Model for Exploring the Optimal Trade-off between Field Processing and Transport - group of 3 »**

D Metcalfe, KR Barlow - American Anthropologist, 1992 - JSTOR  
... be removed within the limits set by the **form** of the ... of these two types of processing in the **field** will affect ... If an animal is **divided** into a number of parts ...

[Cited by 39 - Related Articles - Web Search](#)

**Data processing system having apparatus for increasing the execution speed of bit field instructions - group of 4 »**

K Sakamura, T Nakazawa, A Hasegawa, I Kawasaki, K ... - US Patent 5,210,835, 1993 - Google Patents  
... generator 5. The micro address generator S **forms** a ... **field** .width is **divided** by number 32 and the remainder for respective use objects ...  
[Cited by 4 - Related Articles - Web Search](#)

**Method for acoustic/electromagnetic signal processing - group of 3 »**

RA Marschall... - US Patent 5,471,435, 1995 - Google Patents  
... where kg is the constant component of the wave number; **form** the Inverse ... a Digital Signal Processing 20 DSP chip for local real time acoustic **field processing** ...  
[Cited by 9 - Related Articles - Web Search](#)

**Matched-field processing in a range-dependent shallow waterenvironment in the Northeast Pacific ... - group of 3 »**

JM Ozard, ML Yeremy, NR Chapman, MJ Wilmut, EDR ... - Oceanic Engineering, IEEE Journal of, 1996 - ieeexplore.ieee.org  
... OZARD et al.: MATCHED-FIELD PROCESSING IN A RANGE-DEPENDENT ... calculate the range-dependent acoustic pressure **field** P(., 21 ... dr' = 40 m. This modified **form** of ...  
[Cited by 6 - Related Articles - Web Search - BL Direct](#)

**Screen display methods for computer-aided data entry - group of 2 »**

S Shyu, WW Lin, YN Lien, MY Chen, LT Tu, YS Huang - US Patent 5,923,792, 1999 - Google Patents  
... display areas 252, 254 is further **divided** into two sections, ... If a **field** on a **form** passes the post-word ... Data Keys **field** (step 316) using, for example, an input ...  
[Cited by 5 - Related Articles - Web Search](#)

**Phase conjugation in the ocean: Experimental demonstration of an acoustic time-reversal mirror - group of 6 »**

WA Kuperman, WS Hodgkiss, HC Song, T Akal, C Ferla ... - The Journal of the Acoustical Society of America, 1998 - link.aip.org  
... Such degrading influences can be **divided** into static and dynamic ... The object of study is the **field** produced by a ... which can be written in the general **form** In Eq. ...  
[Cited by 167 - Related Articles - Web Search - BL Direct](#)

**F-test in matched field processing: identifying multimodepropagation**

CF Mecklenbrauker, D Maiwald, JF Bohme - Acoustics, Speech, and Signal Processing, 1995, ICASSP-95., ..., 1995 - ieeexplore.ieee.org  
... M3) For far **field** sources we used propagation in **form** of plane ... The theoretical background for and **divided** into K stretches of duration T. Each of the F-Test ...  
[Cited by 3 - Related Articles - Web Search - BL Direct](#)

**A Field Trial of the Effectiveness of a Feline Toxoplasma gondii Vaccine in**

Reducing T. gondii ... - group of 3 »

NE Mateus-Pinilla, JP Dubey, L Choromanski, RM ... - The Journal of Parasitology, 1999 - JSTOR

... of tissues containing the encysted **form** of the ... t Bayer Corporation, Agricultural Division, Animal Health ... **Field processing** of rodents followed the Centers for ...

Cited by 14 - Related Articles - Web Search - BL Direct

Fast matched field processing - group of 4 »

S Aravindan, N Ramachandran, PS Naidu - Oceanic Engineering, IEEE Journal of, 1993 - ieeexplore.ieee.org

... Writing (6) in full **form** we have ... ARAVINDAN et al.: FAST MATCHED FIELD PROCESSING ... of

D. For example,  $F(0)$  is the sum of the main diagonal elements **divided** by two ...

Cited by 2 - Related Articles - Web Search - BL Direct

Year 2000 compliance method which overlays day and/or month fields with century data to expand ... - group of 3 »

RH Coletti - US Patent 6,092,073, 2000 - Google Patents

... 10 Bracketing indicates integer **division**. ... data overlay is essentially the creation of a new **form** of counting ... 10 for the numbers 1 through 9 in each **field**, it is ...

Cited by 3 - Related Articles - Web Search

[CITATION] Method and apparatus for segmenting data to create mixed raster content planes

US Patent 6,400,844, 2002

Cited by 6 - Web Search

Time-Multiplexed Analog Transmission of Three Broadcast-Quality Television Channels Through One ... - group of 6 »

LN Lee - IEEE Journal on Selected Areas in Communications, 1987 - ieeexplore.ieee.org

... the next two years by some **form** of TV ... multiplexing is to readily permit time-division multiple-access ... or **field** differentials from neighboring lines or **fields**. ...

Cited by 4 - Related Articles - Web Search

Extended Definition TV Fully Compatible with Existing Standards - group of 3 »

»

T Fukinuki, Y Hirano, H Ltd, J Tokyo - Communications, IEEE Transactions on [legacy, pre-1988], 1984 - ieeexplore.ieee.org

... postfilters composed of frame and/or **field** stores ... Time **division** multiplexing of luminance and chrominance com ... signal, because the existing TV **format** is included ...

Cited by 15 - Related Articles - Web Search

Dipole detection and localization processing - group of 3 »

BR Breed - US Patent 5,337,259, 1994 - Google Patents

... the capabilities of the process to provide for simulta -neous matched-field processing of more ... is com -prised ofusing the sensors' data in the **form** ofa vector ...

Cited by 5 - Related Articles - Web Search

A matched field processing approach to long range acoustic navigation

M Deffenbaugh - 1994 - dspace.mit.edu

... Tomographic techniques **form** an incomplete answer to the Arctic ... The system takes a matched **field** approach to the ... This motivates the **division** of the navigation ...

Cited by 2 - Related Articles - Web Search - Library Search

LIQUID DISTRIBUTION SYSTEM

CO Glasgow - US Patent 3,246,451, 1966 - Google Patents

... 4 is a sectioned side elevation of another **form** for the ... gas which are fluids re-  
quiring **field processing** prior to ... one type of source for fluids to be **divided**. ...  
Cited by 5 - Related Articles - Web Search

Virtual compensator - group of 2 »

RAC Siochi, FM Hernandez-Guerra - US Patent 5,724,403, 1998 - Google Patents

... The combination circuit 78 will depend on the **form** in ... from 60 program calculates  
an efficient way to **divide** the inputted ... **field** up into separate sections. ...  
Cited by 17 - Related Articles - Web Search

Detection performance of two efficient source tracking algorithms for  
matched-field processing - group of 3 »

MJ Wilmut, JM Ozard - The Journal of the Acoustical Society of America, 1998 - link.aip.org  
... value of for noise only **divided** by the ... then matched to the replicas to **form** the  
Bartlett ...

A. Tolstoy, Matched Field Processing for Underwater Acoustics (World ...

Cited by 2 - Related Articles - Web Search - BL Direct

Reconstitution of images - group of 2 »

KC Kiesel, WR Wray - US Patent 4,649,568, 1987 - Google Patents

... 22, 1984 [51] Int. Q." G06K 9/36 [52] US a 382/41 [58] **Field** of Search 382/41, 47,  
44; ... 10 Claims, 7 Drawing Figures ORIGINAL RADIANCE **FIELD** -FULL RESOLUTION ...  
Cited by 6 - Related Articles - Web Search

Performance Analysis of a CAN/CAN Bridge - group of 6 »

H Ekiz, A Kutlu, MD Baba, ET Powner - Proceedings of the 1996 International Conference on  
Network ..., 1996 - doi.ieeecomputersociety.org

... the appropriate solution is to **divide** the network ... of data can take two **forms**: pass  
through ... CAN networks, two dedicated Arbitration **Field Processing** Unit (AFPU ...

Cited by 8 - Related Articles - Web Search

Micrographic film member with laser written data - group of 2 »

J Drexler - US Patent 4,588,665, 1986 - Google Patents

... reflective **field** or 40% in a low reflective **field**. ... planar major surface 13 which  
is **divided** into a ... is preferably photographic film in sheet **form**, for example ...

Cited by 7 - Related Articles - Web Search

OASIS: a programming environment for implementing distributed  
organizational support systems

C Martens, FH Lochofsky - Conference on Supporting Group Work, 1991 - portal.acm.org

... although it is part of the larger OASIS **design**. ... They contain an unlimited length  
**field** of program st ... they may also contain transient data in the **form** of local ...

Cited by 11 - Related Articles - Web Search

Broadband model-based processing for shallow ocean environments - group  
of 5 »

JV Candy, EJ Sullivan - The Journal of the Acoustical Society of America, 1998 - link.aip.org

... resulting broadband MBP to an adaptive **form** by "augmenting" ... That is, the  
pressure-**field** solution can be written ... yields where we see that, upon **division** by ...

Cited by 2 - Related Articles - Web Search - BL Direct

Matched field processing in shallow ocean: signal arrival identification using  
EM algorithm - group of 2 »

CF Mecklenbrauker, JF Bohme - Acoustics, Speech, and Signal Processing, 1994. ICASSP-  
94., ..., 1994 - ieeexplore.ieee.org

... eigemis'aimie prol)hc'miu of tluue **form A**(s ... A typical calculated acommst.ie i utemmsi ty **field rcsuml t** ... pled at frequmeumcy b = 1024 llz ammch **divided** into K ...  
[Cited by 1 - Related Articles - Web Search](#)

... with encoder circuitry that generates ECC check bytes using the finite **field** for optical data for ... - group of 3 »

CE Bonke, D Worrell, KD'Souza, K Nguyen - US Patent 5,661,848, 1997 - Google Patents  
... CD ROM SYNDROME FIFO HOLD 200 243 216 S REGISTER FILE 222 21 8 S ALU & ACCUMULATE

220 GALOIS FIELD PROCESSING UNIT OFFSET REGISTER '228 MASK REGISTER "230 232 ...

[Cited by 36 - Related Articles - Web Search](#)

**[PS]** Nist Form-Based Handprint Recognition System. Nistir 5469 - group of 2

»

MD Garris, J Blue, G Candela, D Dimmick, J Geist, ... - US Dept. of Commerce, Technology Administration, Nat'l Inst. ..., 1994 - sequoyah.nist.gov

... c. Figure 5 depicts the main routine **divided** into five ... is responsible for processing an HSF **form** image, dividing the image into separate **fields**. ...

[Cited by 1 - Related Articles - View as HTML - Web Search](#)

### High-speed real-time Reed-Solomon decoder

GK Maki, KB Cameron, PA Owsley - US Patent 4,873,688, 1989 - freepatentsonline.com  
... The second **form** is the **form** used by NASA ... means that the remainder of the **division** b(x ... the decoder include the following Galois **Field processing** elements: adder ...

[Cited by 35 - Related Articles - Cached - Web Search](#)

Autopsy on an RF-Processed X-band Travelling Wave Structure - group of 11

»

F Le Pimpec, S Harvey, RE Kirby, F Marcelja - Arxiv preprint physics/0210016, 2002 - arxiv.org

... 3 we can see that the input coupler is **divided** into two ... the horns lies in a very low electric **field** area, and ... this energy is dumped in the Cu in **form** of heat ...

[Cited by 5 - Related Articles - View as HTML - Web Search](#)

### LIQUID DISTRIBUTION METHOD

US Patent 3,265,080, 1966 - Google Patents

... brought into the vessel being allowed to **form** strata and Application Sept. 24, 1962, Ser. ... of **field processing** equipment for **divided** liquid portions, ...

[Cited by 1 - Related Articles - Web Search](#)

Object segmentation in stereo image using cooperative line **field** instochastic diffusion

SH Lee, Y Kanatsugu, JI Park - Image Processing, 2001. Proceedings. 2001 International ..., 2001 - ieeexplore.ieee.org

... ku, Tokyo, 157-8510, Japan \* **Division** of Electrical and ... to the estimated **fields** in the **form** of probabilistic ... c) segmentation of [9] (d) cooperative line **field** ...

[Cited by 1 - Related Articles - Web Search](#)

**[PS]** MATCHED FIELD PROCESSING USING MULTIPOLE EXPANSION - group of 3 »

CF Mecklenbrauker - 4th European Conference on Underwater Acoustics, edited by A ..., 1998 - mpl.ucsd.edu

Page 1. MATCHED FIELD PROCESSING USING MULTIPOLE EXPANSION Christoph F. Mecklenbrauker,

1 Andreas Waldhorst, 1 Peter Gerstoft, 2 and Georgios Haralabus 3 ...

[Cited by 1 - Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Television system using reversing scan which minimizes ghost visibility - group of 2 »](#)

RW Citta - US Patent 4,941,049, 1990 - Google Patents

... 2) that is operated in accordance with a second **form** of the ... image 16 since the amplitudes of the ghost signals are divided by two in the **field** averager ...

[Cited by 1 - Related Articles](#) - [Web Search](#)

[Continuous field control of series wound motors - group of 3 »](#)

BI Florey, JC Lambert - US Patent 4,730,151, 1988 - Google Patents

... and with speed control equally effective with light and implement some **form** of electrical braking. ... namic or plug braking. In either case, the **field** and ...

[Cited by 22 - Related Articles](#) - [Web Search](#)

[Computer-Assisted Rapid Surveys in Developing Countries. - group of 2 »](#)

RR Frerichs, K Tar Tar - Public Health Reports, 1989 - questia.com

... done in May 1988, in Hmawbi Township, Rangoon Division, by a ... We use paper forms to

write down the information ... in a fixed location (that is, fixed **field**) or are ...

[Cited by 25 - Related Articles](#) - [Web Search](#)

[Digital camera processing device having variably settable interpolation - group of 2 »](#)

T Mimura, E Ohara - US Patent 5,262,849, 1993 - Google Patents

... IN0.1 **FIELD!** ~\* PROCESSING LJ L4 LJ (NO ... Cy Ye CyYe" " In the **field** of analog signal

processing, particularly ... and held in the sample-and-hold circuit 203 **form** a ...

[Cited by 10 - Related Articles](#) - [Web Search](#)

[Recurrent Network Interactions Underlying Flow-Field Selectivity of Visual Interneurons - group of 4 »](#)

J Haag, A Borst - Journal of Neuroscience, 2001 - neuroscience.org

... These connections **form** the basis for the sensitivity ... Borst, 201 Wellman Hall, ESPM-Division of Insect ... visual cortex and its relation to flow field processing. ...

[Cited by 19 - Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Seismo-acoustic field statistics in shallow water - group of 3 »](#)

BH Tracey, H Schmidt, CC Inc - Oceanic Engineering, IEEE Journal of, 1997 - ieeexplore.ieee.org

... density differences across the interface, giving a **form** comparable to ... 10 m of the seabed are divided into 20 ... Comparison of scattered **field** intensity from a 10-m ...

[Cited by 9 - Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Matched-Field Processing: acoustic focalization with data taken in a shallow water area of the ... - group of 2 »](#)

C Soares - MSC Report, SiPLAB-FCT, University of Algarve, Faro, ..., 2001 - ualg.pt

... known as Matched-Field Processing (MFP). ... In this type of environment the acoustic **field** is usually ... of variables the solution being searched has the **form** ...

[Cited by 2 - Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Near-field source localisation using bottom-mounted linear sensorarray in multipath environment - group of 4 »](#)

SH Lee, CS Ryu, KK Lee - Radar, Sonar and Navigation, IEE Proceedings-, 2002 - ieeexplore.ieee.org

... Matched- field processing (MFP) is also used for source localisation ... 24th October 2001 and in revised form 10th May ... SH Lee is with the Division of Computer and ...  
Cited by 1 - Related Articles - Web Search - BL Direct

Decoder having a split queue system for processing instructions in a first queue separate from ... - group of 3 »

AL Carbine, GL Brown, BD Hoyt, DD Parker, R Kumar - US Patent 5,668,985, 1997 - Google Patents

... 375 OTHER PUBLICATIONS Johnson, Mike, "Superscalar Microprocessor Design" ... format

particularly suited for those execution units. ... destination field, among others ...

Cited by 4 - Related Articles - Web Search

Adaptive matched field processing of a large array in a white noiseenvironment - group of 2 »

YP Lee, H Freese, J Hanna, P Mikhalevsky - OCEANS'93.'Engineering in Harmony with Ocean'. Proceedings, 1993 - ieeexplore.ieee.org

... The full-array is divided into subarrays. ... vector and the noise vectors V .. form an orthogonal ... In matched-field- processing, an acoustic model is used to ...

Web Search - BL Direct

**FIELD PROCESSING METHODS DEVELOPED FOR A SEPARATED-SECTOR CYCLOTRON - group of 2 »**

GF Burdzikt - IEEE Transactions on Nuclear Science, 1979 - epaper.kek.jp

... 5: Illustration of how the intervals j and form- ---- ... divided into a number of intervals II, except that the ... If the magnetic field is written in the form  $B(r,R)$  ...

View as HTML - Web Search

Statistical modelling, matched-field processing and matched-fieldinversion at high frequencies - group of 3 »

DR Sweet - Information, Decision and Control, 1999. IDC 99. Proceedings ..., 1999 - ieeexplore.ieee.org

... Maritime Operations Division Defence Science and Technology Organisation POBox 1500 ...

Matched-field processing (MFP) is a generalized form of beamforming which ...  
Related Articles - Web Search

An environmental database for matched-field processing

GR Ebbeson, JM Ozard, P Wort, G Litchfield, C ... - OCEANS'97. MTS/IEEE Conference Proceedings, 1997 - ieeexplore.ieee.org

... within a search region (range, depth and bearing) to form an am ... that the data intended 'for storage in the EDB are divided into three ... Matched-Field Processor ...

Related Articles - Web Search - BL Direct

Magnetic Field Processing of Polymers. 1. Hydroxypropyl Cellulose

NM Los Alamos - Journal of Applied Polymer Science, 1994 - doi.wiley.com

... cellulose derivatives would be ex- pected to form ordered phases in ... The applied load is then divided by the contact ... MAGNETIC FIELD PROCESSING OF POLYMERS 1147 ...

Related Articles - Web Search

An application of a specialized data bank for analysis and information retrieval in the field

JA Brown, B Verner - Proceedings of the sixth international conference on APL, 1974 - portal.acm.org

... with feedback inthe field in the form of performance ... necessary to show how it

oDerateshe

field labs located ... APL PLUS File Subsystem are **divided** into components ...

[Web Search](#)

### [UCLA's new bi-polar planar near-field antenna measurement facility - group of 3 »](#)

Y Rahmat-Samii, LI Williams, RG Yaccarino - Aerospace Applications Conference, 1995. Proceedings., 1995 ..., 1995 - [ieeexplore.ieee.org](#)

... **field** transformation algorithms may then be **divided** into those ... be noted that for planar near-field scanning the radiation integral (2) takes the **form** of an ...

[Related Articles](#) - [Web Search](#)

### [Field Administration in OPS](#)

AP Flory - Law and Contemporary Problems, 1954 - JSTOR

... periodic release in mimeographed **form** of digests of ... Commodity **division** personnel, primarily responsible for ... nique offered the better base for **field processing** ...

[Web Search](#)

### [... Speckle Displacement \(LSD\) Technique Applied to Instantaneous Temperature Field Measurements of a ...](#)

E Koc-Alkislar, M Bahadir Alkislar, L Lourenco - American Physical Society, Division of Fluid Dynamics ..., 1999 - [adsabs.harvard.edu](#)

FSU/FAM Journal: American Physical Society, **Division** of Fluid Dynamics Meeting ... also higher order approximation to the derivatives of the displacement **field** ...

[Web Search](#)

### [Pulsed Electric Fields](#)

P Technologies - Center for Food Safety and Applied Nutrition, 2000 - [holman.net](#)

... pulses may be applied in the **form** of exponential ... high proportion of cells undergoing **division**, during which ... is more susceptible to the applied electric **field** ...

[Related Articles](#) - [Web Search](#)

### [Linearization of the matched \*\*field processing\*\* approach to inverse tomography](#)

A Tolstoy - US Patent H1,280, 1994 - Google Patents

... **DESIGN** CONFIGURATION AND PARTITION OF REGION TO OPTIMIZE ... or eddy that maximizes the matched **field** power at ... Since the environment is further **character- ized** by ...

[Web Search](#)

### [... a posteriori probabilityparameter estimator with application to robust matched-field processing - group of 3 »](#)

BF Harrison, RJ Vaccaro, DW Tufts, NUS Center, RI ... - Acoustics, Speech, and Signal Processing, 1997. ICASSP-97., ..., 1997 - [ieeexplore.ieee.org](#)

... set of unknown parameters can be **divided** into two ... a linear approximation of the (3) **form** where C ... processing technique known as matched- **field processing** [7] for ...

[Related Articles](#) - [Web Search](#) - [BL Direct](#)

### [Source localization with broad-band matched-field processing in shallow water](#)

TOC View - Oceanic Engineering, IEEE Journal of, 1996 - [ieeexplore.ieee.org](#)

... and Ocean Surveillance Center, RDT&E **Division**, San Diego ... a 50% overlapped Kaiser-Bessel window to **form** a Ne ... WITH BROAD-BAND MATCHED-FIELD **PROCESSING** IN SHALLOW ...

[Related Articles](#) - [Web Search](#)

### Matched field tomographic inversion

A Tolstoy - OCEANS'93.'Engineering in Harmony with Ocean'. Proceedings, 1993 - ieeexplore.ieee.org

... cells are assumed to be simple, uni- **form** size squares ... 10 km by 10 km region divided into 16 ... A., "Linearization of the matched field processing approach to ...

Related Articles - Web Search - BL Direct

### Deep seismic survey extending from Western Washington to Mist Gas Field, Oregon. Final report

DD Hollis - 1992 - osti.gov

... Processed survey data is available in printout **form** and on 9 track tape. ... FIELD TAPE **FORMAT** Field data is recorded on IBM compatible ... Each tape reel is divided ...

Related Articles - View as HTML - Web Search

### Levelling Marine Potential Field and Bathymetry Data, a New Approach - group of 2 »

M Morse, AGS Organisation, GPO Box, R Seikel, D ... - Geophysics, 1983 - seg.org  
... Morse Petroleum & Marine Division Australian Geological ... were then calculated to **form** a master ... developed for airborne potential field processing, coupled with ...

View as HTML - Web Search

### Broadband matched field processing using robust prewhitening andmultiple window techniques

CF Mecklenbrauker, M Geravanchizadeh, JF Bohme - Acoustics, Speech, and Signal Processing, 1996. ICASSP-96. ..., 1996 - ieeexplore.ieee.org

... 1996 IEEE 3081 BROADBAND MATCHED FIELD PROCESSING USING ROBUST ... data stretches in

turn is **divided** into K ... in a robust prewhitening operation to **form** the residuals ...

Related Articles - Web Search - BL Direct

### Composition for removing scale - group of 3 »

RD Tate - US Patent 5,685,918, 1997 - Google Patents

... Related US Application Data [62] **Division** of Ser. ... fluorosilicate, which typically **form** in underground reser- 40 ... ment comprises oil field processing equipment. ...

Cited by 3 - Related Articles - Web Search

### Plasma processing apparatus using a partition panel - group of 3 »

K Shintani, M Taki, H Ootera, K Nishikawa - US Patent 6,076,483, 2000 - Google Patents

... 20 isprovided as apartitionwall to **divide** plasma generation ... processing apparatus that can **form** plasma uniformly over ... higher than that without a magnetic **field**. ...

Cited by 4 - Related Articles - Web Search

### Pseudogaussian video output processing for digital display - group of 2 »

KA Huelsman - US Patent 4,215,414, 1980 - Google Patents

... and 36 with the following pattern: in digital **form**, the lines ... by a digital video output 65 **FIELD** processing unit 22 ... a binary adder 34and the output **divided** by 2 ...

Cited by 26 - Related Articles - Web Search

### Disk drive control without identification fields - group of 3 »

JS Geldman, SH Ho, P Estakhrf, JJ Schadegg... - US Patent 6,332,182, 2001 - Google Patents

... (60) **Division** of application ... a 512-byte data **field**, then a 7-byte ECC (Error Correction Code) **field**. In this **format** each sector is preceded by the servo burst. ...

Cited by 1 - Related Articles - Web Search

### Co-Channel Interference of Spread Spectrum Systems in a Multiple User

## Environment

S Musa, W Wasylkiwskyj - Communications, IEEE Transactions on [legacy, pre-1988], 1978 - ieeexplore.ieee.org

... hopping" (FH) as well as time **division** multiple access PN ... of bit error for a specified modulation **format** is a ... can therefore be written in the following **form**: ...

Cited by 6 - Related Articles - Web Search

## A robust incoherent matched field processor for source localizationin uncertain multipath fields

J Krolik, J Lynch, D Swigler - Acoustics, Speech, and Signal Processing, 1989. ICASSP-89., ..., 1989 - ieeexplore.ieee.org

... Oceanographic Institution, Woods Hole,assacfusetts, USA, 02543 +++ Division of En ...

1. Introduction Matched field processing is a generalization of conventional ...

Cited by 1 - Related Articles - Web Search

## Two chamber plasma processing apparatus - group of 2 »

H Ootera, M Taki, K Shintani, K Nishikawa - US Patent 6,167,835, 2001 - Google Patents

... is pro- vided as a partition wall to **divide** plasma generation ... to provide a plasma

processing apparatus that can **form** plasma uniformly ... without a magnetic field. ...

Cited by 2 - Related Articles - Web Search

## Data accumulation system - group of 2 »

RE Fayling... - US Patent 3,995,313, 1976 - Google Patents

... Related US Application Data [62] Division of Ser. No. ... This **field** is shunted ... 18 shaped

in the **form** of an alphanumeric **character** or 45 signals from the buffer ...

Cited by 11 - Related Articles - Web Search

## Display system having plurality of display areas - group of 2 »

K Ohsawa, Y Morohashi, S Sakai - US Patent 5,757,369, 1998 - Google Patents

... display In this case, characters displayed on the **character**- ... The **field** positions and data which has been ... conditions, data, desired **form** and the like are input ...

Cited by 2 - Related Articles - Web Search

## Subband coding method with wavelet transform for high efficiency video signal compression - group of 3 »

S Murakoshi - US Patent 5,825,935, 1998 - Google Patents

... signal LH3 as one often divided signals, the ... by those numerals "11" to "22" forms the first ... and vertical high frequency components in the **field processing**. ...

Cited by 18 - Related Articles - Web Search

## Assessment of flow stress and plastic strain by spectrum analysis - group of 3 »

»

YZ Dai, FP Chiang - Experimental Mechanics, 1991 - Springer

... derivation shows that the Fourier trans- **form** of the scattered **field** is proportional to ... Army Research Office, Engineering Science **Division** through Contract ...

Related Articles - Web Search

## Multimode interpolation filter as for a TV receiver - group of 5 »

BA Canfield - US Patent 6,501,507, 2002 - Google Patents

... (62) **Division** of application ... encoded with avariety ofdifferent spatial resolutions, or by **field** or frame ... an example of a multimode interpolator in block **form**. ...

Related Articles - Web Search

## Distributed fieldbus and control network systems - group of 6 »

G Schickhuber, O McCarthy - Computing & Control Engineering Journal, 1997 -

ieeexplore.ieee.org

... actuators) and control unit either in the **form** of analogue ... 3). The CIM model is divided into five layers. ... lowest level (5) is subdivided into **field** device and ...

Cited by 46 - Related Articles - Web Search - BL Direct

The matched-phase coherent multi-frequency matched-field processor - group of 3 »

GJ Orris, M Nicholas, JS Perkins - The Journal of the Acoustical Society of America, 2000 - link.aip.org

... M receiver locations are processed to **form** the data ... The data were then divided into 2-s records ... and H. Schmidt, "Matched-field processing: Source localization ...

Cited by 9 - Related Articles - Web Search - BL Direct

Apparatus and method for optimized compression of interlaced motion images - group of 3 »

KD Goertzen - US Patent 6,289,132, 2001 - Google Patents

... **form**. ... received b y the si e nal **divide** module 355 > which P arses the ... 25 the second **field** (V s ). One of the **fields** is designated to be ...

Cited by 5 - Related Articles - Web Search

Matched-beam processing: Application to a horizontal line array in shallow water - group of 3 »

TC Yang, T Yates - The Journal of the Acoustical Society of America, 1998 - link.aip.org

... replica beams are correlated with data beams to **form** new beam ... The simulated data are divided into 250 time frames ... For each time frame, the acoustic **field** is the ...

Cited by 7 - Related Articles - Web Search - BL Direct

Character reading apparatus - group of 2 »

M Suda, Y Nakamura, N Takagi - US Patent 5,381,488, 1995 - Google Patents

... provides a technique of detecting each **character field** ... data DN1 through DN8 for each divided area DX1 ... with aplurality ofpixels arranged to **form** a plurality of ...

Cited by 1 - Related Articles - Web Search

Image processing apparatus - group of 2 »

T Yatomi, A Fujii, I Matsui - US Patent 5,915,040, 1999 - Google Patents

... from an input terminal 1, and is divided into blocks ... processing such as discrete cosine trans -**form** (DCT), and ... 104 and odd **field** data from the **field** memory 105 ...

Cited by 2 - Related Articles - Web Search

Normal Development of Bilateral Field Advantage and Evoked Potential Interhemispheric Transmission ... - group of 6 »

KM Hagelthorn, WS Brown, S Amano, R Asarnow - Developmental Neuropsychology, 2000 - Lawrence Earlbaum

... age comparison, participants were divided into three ... 1974; Vocabulary, Similarities, Block Design, and Picture ... periphery of the voltage **field**, responses from ...

Cited by 9 - Related Articles - Web Search - BL Direct

Method and apparatus for processing a color video signal - group of 2 »

H Owashi, H Ohtsubo, M Sekiya, K Minabe, H ... - US Patent 5,063,437, 1991 - Google Patents

... Cl.' H04N 9/64 [52] US O 358/22; 358/312 [58] **Field** of Search 358/312, 22, 1 1 [56] References Cited US PATENT DOCUMENTS 4,247,865 1/1981 Mastronardi 358/17 ...

Cited by 8 - Related Articles - Web Search

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Relevance scale

### 1 [Human-computer interface development: concepts and systems for its management](#)

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(7.97 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

*Human-computer interface management*, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

### 2 [FORMANAGER: an office forms management system](#)

S. Bing Yao, Alan R. Hevner, Zhongzhi Shi, Dawei Luo

August 1984 **ACM Transactions on Information Systems (TOIS)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.35 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

### 3 [Interactive mathematics via the Web using MathML](#)

Francis J. Wright

June 2000 **ACM SIGSAM Bulletin**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

MathML is a mathematical markup language intended for displaying mathematics in web browsers. At present, it can be used to display mathematics generated dynamically in response to interactive queries only if the browsing and generating facilities are chosen carefully. This paper examines the background and possible options, and describes some of the details of the use of MathML to display the output from a web-based demonstration of an ordinary differential equation solver running in REDUCE ...

### 4 [A human engineered PCB design system](#)

Andrew J. Matthews

January 1977 **Proceedings of the 14th conference on Design automation DAC '77**

Publisher: IEEE Press

Full text available:  pdf(489.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A discussion of the design decisions made in the development of a new computer-aided Printer Circuit Board design and documentation system, and a description of completing a PCB on the resulting system. The system is a maximum capability tool, uses high performance refresh graphics, works with schematic diagrams as input, and provides auto-interactive placement and routing, and powerful editing capabilities.

## 5 Fortran 8X draft



Loren P. Meissner

December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM Press

Full text available:  pdf(21.36 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Standard Programming Language Fortran.** This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

## 6 Accessing relational databases from the World Wide Web



Tam Nguyen, V. Srinivasan

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the growing popularity of the internet and the World Wide Web (Web), there is a fast growing demand for access to database management systems (DBMS) from the Web. We describe here techniques that we invented to bridge the gap between HTML, the standard markup language of the Web, and SQL, the standard query language used to access relational DBMS. We propose a flexible general purpose variable substitution mechanism that provides cross-language variable substitution between HTML input and S ...

## 7 The VLSI Complexity of Selected Graph Problems



Joseph Já Já

March 1984 **Journal of the ACM (JACM)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available:  pdf(862.70 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 8 Automatic generation of logic diagrams



James A. Smith, James G. Linders

June 1976 **Proceedings of the 13th conference on Design automation DAC '76**

Publisher: ACM Press

Full text available:  pdf(890.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper identifies the basic notions involved in the automatic generation of logic diagrams. A system (ALDGS) for generating logic diagrams automatically is described and

sample diagrams are given.

**Keywords:** Design automation, Digital systems, Logic layout, Placement, Routing

**9 The <bigwig> project**

 Claus Brabrand, Anders Møller, Michael I. Schwartzbach  
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(586.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailor-made information. The development of systems ...

**Keywords:** Interactive Web services, program analysis

**10 Human factors guidelines for terminal interface design**

 D. Verne Morland  
July 1983 **Communications of the ACM**, Volume 26 Issue 7

**Publisher:** ACM Press

Full text available:  [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper provides a set of guidelines for the design of software interfaces for video terminals. It describes how to optimize screen layouts, interactive data entry, and error handling, as well as many practical techniques for improving man-machine interaction. Emphasis is placed on factors relating to perceptual and cognitive psychology rather than on gross physiological concerns. Ways in which interfaces can be evaluated to improve their user friendliness are also suggested. The ...

**Keywords:** data entry, display terminals, error prevention, error tolerance, interactive terminals, interface evaluations, online systems, system directories, user friendliness

**11 Web and e-business application: Dynamically generating web application fragments from page templates**

 Uwe Zdun  
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

**Publisher:** ACM Press

Full text available:  [pdf\(900.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web-based applications are typically required to be highly customizable and configurable. New application requirements have to be introduced rapidly, often without stopping the running application process. Moreover, in many cases the same business logic has to be presented to different channels and/or user interfaces. In this paper we present a dynamic page template architecture for decomposing configurable and representational fragments of the application from the business logic. Page templates ...

**Keywords:** dynamic software architecture, object-Oriented Scripting, web engineering

12 An extensible constructor tool for the rapid, interactive design of query synthesizers

 Michelle Baldonado, Seth Katz, Andreas Paepcke, Chen-Chuan Chang, Hector Garcia-Molina, Terry Winograd

May 1998 **Proceedings of the third ACM conference on Digital libraries DL '98**

Publisher: ACM Press

Full text available:  pdf(1.75 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



13 The tool belt: many tools, one interface

 Mike MacKenzie, Dennis McWhirter

October 1998 **Proceedings of the 26th annual ACM SIGUCCS conference on User services SIGUCCS '98**

Publisher: ACM Press

Full text available:  pdf(945.14 KB) Additional Information: [full citation](#), [index terms](#)



14 Software for simulation

 Jerry Banks

December 1995 **Proceedings of the 27th conference on Winter simulation - Volume 00 WSC '95**

Publisher: ACM Press, IEEE Computer Society

Full text available:  pdf(788.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

 Publisher Site

This tutorial describes computer languages and other software packages that support discrete-event simulation.

15 DITROFF/FFORTID, an adaptation of the UNIX/DITROFF for formatting bidirectional

 text

Cary Buchman, Daniel M. Berry, Jakob Gonczarowski

October 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

DITROFF/FFORTID, a collection of pre- and postprocessors for the UNIX DITROFF (Device Independent Typesetter RunOFF) is described. DITROFF/FFORTID permits formatting of text involving a mixture of languages written from left to right and from right to left, such as English and Hebrew. The programs are table driven or macro-generated to permit them to be used for any languages written from left to right and from right to left so long as font ...



16 The application development process: What's wrong with it?

 John D. Crowley

January 1981 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1981 ACM workshop/symposium on Measurement and evaluation of software quality**, Volume 10 Issue 1

Publisher: ACM Press

Full text available:  pdf(991.38 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)



This paper will examine the process used in the development of computer applications.

The claim is made that the current methodology has serious deficiencies, but that a

software development approach is becoming available to help address these problems.

17 Software for simulation

Jerry Banks

December 1994 **Proceedings of the 26th conference on Winter simulation WSC '94**

Publisher: Society for Computer Simulation International

Full text available:  [pdf\(828.27 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 A database design methodology for an integrated database environment

 Marian Herman

September 1983 **ACM SIGMIS Database**, Volume 15 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(653.41 KB\)](#) Additional Information: [full citation](#), [abstract](#)



The database design methodology used by a major US. commercial bank is described. The methodology is used for designing databases that support a large integrated real-time application. The methodology consists of four phases:• Conceptual Design• Detailed Conceptual Design• Logical Design• Physical DesignEach design phase corresponds to a particular phase of the standard project life cycle used at the organization. For each database design phase, data collection and analysis, ...

19 Versions and standards of HTML

 Dennis J. Bouvier

October 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(520.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)



In the brief history of the World Wide Web (WWW), much has changed. Millions of web pages have been published in a relatively short time. Next to the Web content, the one of the most dynamic aspects of the WWW is the development of HyperText Markup Language (HTML). This paper explores the various versions of HTML and gives a status report on HTML standards development. A discussion of possible future trends is also included.

**Keywords:** HTML, WWW, hyper text, markup

20 Software for simulation

 Jerry Banks

December 1993 **Proceedings of the 25th conference on Winter simulation WSC '93**

Publisher: ACM Press

Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)



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- 24 Transforming the content management process at IBM.com  
Louis Weitzman, Sara Elo Dean, Dikran Meliksetian, Kapil Gupta, Nianjun Zhou, Jessica Wu  
April 2002, Case studies of the CHI2002|AIGA Experience Design FORUM CHI '02

Publisher: ACM Press

Full text available:  pdf(1.45 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This case study explores the evolution of the Franklin Content Management System, developed by IBM's Internet Technology Group. Franklin began as a technology-driven process to provide a web content management solution with the following goals: content reusability, simplified management of content and design that enforces integrity and consistency, the customization of content to individual users, and the delivery of content to a variety of display devices. These goals were met in part by the dec ...

**Keywords:** DTD, XML, XSL, content management, content reuse, customization, information architecture, object dependency, software development, web publishing

- ## 25 Information systems skills requirements: 1980 & 1988

O. H. Cheney

May 1988 **Proceedings of the ACM SIGCPR conference on Management of information systems personnel SIGCPR '88**

Publisher: ACM Press

Full text available: [pdf\(721.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This study reports on a follow-up survey of 31 information systems managers to determine the changes in skills requirements and projected IS manpower needs since 1980. While the original study focused only on the nation's largest organizations, the respondents in this follow-up survey are employed by organizations of varying size most of which are located in the Southeast. Data were gathered via personal interviews and questionnaires.

- ## 26 Proving circuit correctness using formal comparison between expected and extracted behaviour

---

Jean-Christophe Madre, Jean-Paul Billon

June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation DAC '88**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(852.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a new method for verifying functionality in the design of VLSI circuits. Our method fits naturally in a methodology based on a Hardware Description Language (HDL). Two programs describe the system under design: (1) its specification and (2) the extracted behaviour from its layout. Verifying the design comes down to proving that these programs are correct and equivalent with regard to the HDL semantics. We define a process named F ...

- 27** An overview of ACM guidelines and recommendations for a community and junior college career program in computer programming.

Joyce Currie Little

January 1978 Proceedings of the 1978 annual conference - Volume 2 ACM '78

Publisher: ACM Press

**Full text available:**  pdf(453.16 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

## The Community and Junior College Subcommittee of the Curriculum Committee on

Computer Education (C3E-CAJC) of the Association for Computing Machinery has recently completed work on its first report. Entitled "Curriculum Recommendations and Guidelines for a Community and Junior College Career Program in Computer Programming," the report presents findings from more than two years of discussion, interaction, and analysis by a large working group of educators an ...

**Keywords:** Computer, Computer programming, Computer science, Computer technology, Curriculum, Data processing, Education, Two-year programs, Undergraduate programs

- 28 **Intermedia: The architecture and construction of an object-oriented hypemedia system and applications framework**  
Norman Meyrowitz  
June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '86**, Volume 21 Issue 11  
Publisher: ACM Press  
Full text available:  [pdf\(1.96 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
  
This article presents a case study of the development of the Intermedia system, a large, object-oriented hypermedia system and associated applications development framework providing sophisticated document linkages. First it presents the educational and technological objectives underlying the project. Subsequent sections capture the process of developing the Intermedia product and detail its architecture and construction, concentrating on the areas in which object-oriented technology has ha ...

29 **Computational aspects of resilient data extraction from semistructured sources (extended abstract)**  
Hasan Davulcu, Guizhen Yang, Michael Kifer, I. V. Ramakrishnan  
May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '00**  
Publisher: ACM Press  
Full text available:  [pdf\(259.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
  
Automatic data extraction from semistructured sources such as HTML pages is rapidly growing into a problem of significant importance, spurred by the growing popularity of the so called "shopbots" that enable end users to compare prices of goods and other services at various web sites without having to manually browse and fill out forms at each one of these sites. The main problem one has to contend with when designing data extraction techniques is that the contents of ...

30 **Focused analysis and training environments**  
F. Bradley Armstrong, Barbara Werner Mazziotti, Ken Powell  
December 1994 **Proceedings of the 26th conference on Winter simulation WSC '94**  
Publisher: Society for Computer Simulation International  
Full text available:  [pdf\(669.50 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)  
  
31 **Evolution versus construction: distinguishing user review of software prototypes from conventional review of software specifications**  
David L. Bahn, J. David Naumann  
April 1997 **Proceedings of the 1997 ACM SIGCPR conference on Computer personnel research SIGCPR '97**  
Publisher: ACM Press

Full text available:  pdf(841.66 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

32 HCI and simulation packages 

 Jasna Kuljis

November 1996 **Proceedings of the 28th conference on Winter simulation - Volume 00 WSC '96**

Publisher: ACM Press, IEEE Computer Society

Full text available:  pdf(767.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

 Publisher Site

Computer-based simulation modelling is one of the domains that is particularly demanding in terms of user interfaces. Issues that influence the 'usability' of such systems are examined. Several representative systems were investigated in order to generate some general assumptions with respect to those characteristics of user interfaces employed in simulation systems. There is a need for simulation systems that can support the developments of simulation models in many domains, which are not suppo ...

33 Some aspects of software documentation 

 Enrique Arce Medina

May 1984 **Proceedings of the 3rd annual international conference on Systems documentation SIGDOC '84**

Publisher: ACM Press

Full text available:  pdf(160.26 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The documentation of software systems is discussed in this paper. It describes the contents, organization and purpose - of the internal documentation and the - user's manual.

34 Minnowbrook APL workshop 

 R H Pesch, E E McDonnell, K E Iverson, B Bernecky, D B Allen

March 1986 **ACM SIGAPL APL Quote Quad**, Volume 16 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.18 MB) Additional Information: [full citation](#), [index terms](#)

35 Early power exploration—a World Wide Web application 

 David Lidsky, Jan M. Rabaey

June 1996 **Proceedings of the 33rd annual conference on Design automation DAC '96**

Publisher: ACM Press

Full text available:  pdf(152.95 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

36 A data structure for circuit net lists 

Steve Meyer

June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation DAC '88**

Publisher: IEEE Computer Society Press

Full text available:  pdf(443.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A data structure for storing and processing electrical circuit net lists is described. The basic data structure is not new, but the version described here is novel in three specific

ways. It adds separate structures (arrays) for cell type and I/O pad specific information, stores net lists defined in terms of primitive elements or cells as two superimposed symmetric incidence list form directed graphs, and separates primitive element input and output lists to allow signal flow traversal. Thi ...

**Keywords:** CAE tool building, data structure implementation, software engineering

37 The state of HTML



Dennis J. Bouvier

October 1995 **ACM SIGICE Bulletin**, Volume 21 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(540.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the brief history of the World Wide Web (WWW), much has changed. Millions of web pages have been published in a very short time. Next to the Web content, the most dynamic aspect of the WWW is the development of HyperText Markup Language (HTML). This paper explores the various version of HTML and gives a status report on HTML standards development.

**Keywords:** HTML, WWW, hypertext, markup

### **38 WEBCON: a toolkit for an automatic, data dictionary based connection of databases**



Peter Zoller, Ulrike Sommer

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**

Publisher: ACM Press

**Full text available:**  pdf(1.26 MB)    **Additional Information:** full citation, references, index terms

**Keywords:** automatic page generation, automatic query generation, database to WWW connection, dynamic page generation, relational databases

### 39 EDIFACT for business computers: has it succeeded?



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Airi Salminen

March 1995 StandardView, Volume 3 Issue 1

Publisher: ACM Press

Full text available: [pdf\(154.80 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

40 1983 Acm annual conference: "Health and safety aspects of office automation - the



European scene”

Graham Briscoe  
January 1983 **Proceedings of the 1983 annual conference on Computers : Extending  
the human resource** ACM 83

the human factors  
of computer systems

Publisher: ACM Press  
Full-text available: [pdf\(1.52 MB\)](#) Additional Information: full citation, abstract, index terms

"The number of people in the United Kingdom working with Visual Display Units (VDUs) as part of their job is increasing daily. A large proportion of them are prevented from getting the maximum use out of their VDU because they are experiencing practical problems.

which make it more tiring or difficult to use. The source of these difficulties usually lies in poor ergonomic design (or adjustability) of the VDU, the workplace or the working environment. Because of this many UK and Europea ...

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